(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 6 May 2004 (06.05.2004)

PCT

(10) International Publication Number **WO 2004/037667 A1**

(51) International Patent Classification7:

B65D 33/36

(21) International Application Number:

PCT/SE2003/001628

- (22) International Filing Date: 22 October 2003 (22.10.2003)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 0203129-2

SE 24 October 2002 (24.10.2002)

- (71) Applicant (for all designated States except US): ASEPT INTERNATIONAL AB [SE/SE]; Glimmervägen 8, S-224 78 Lund (SE).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): DRENNOW, Sten [SE/SE]; Östervångsvägen 4, S-224 60 Lund (SE).
- (74) Agents: WAGNER, Heinz et al.; H. Wagner & Co AB, Norra Vallgatan 72, S-211 22 Malmö (SE).

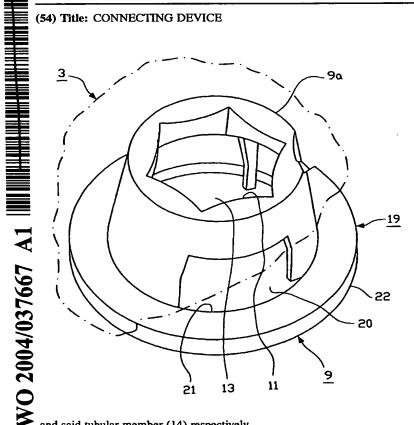
- (81) Designated States (national): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SK (utility model), SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: CONNECTING DEVICE



and said tubular member (14) respectively.

(57) Abstract: The present invention relates to a connecting device for connecting discharge devices to packages (3) with liquid products, preferably foodstuff products, for discharging said products from the packages (3). The connecting device includes two connecting members which can be connected to each other, namely a first connecting member (9) which has a hole (11), said hole being closed by means of a closing member (13), and a second connecting member having a tubular member by means of which the closing member (13) can be penetrated for opening the first connecting member (9). The tubular member can be inserted into the hole (11) and pressed onto edge portions (16) of the hole (11) in the first connecting member (9). The hole (11) has four, five or six corners (15) and edge portions (16) which extend between said corners and the tubular member is designed to fit with said hole (11). The edge portions (16 and 18 respectively) of the hole (11) and the tubular member (14) respectively, are concave and arcuate relative to the centre (C1 and C2 respectively) of said hole (11) and said tubular member (14) respectively, and the concave and arcuate edge portions (16 and 18 respectively) of the hole (11) and the tubular member (14) respectively, connect to each other for defining the corners (15 and 17 respectively) of said hole (11)